

ABSTRACT OF THE DISCLOSURE

A catalyst-carried filter includes a honeycomb structure including a plurality of cells partitioned by partition walls, and an oxidation catalyst for promoting oxidation of the particulates contained in an exhaust gas. An exhaust gas inflow cell whose one opening end is clogged and in which the oxidation catalyst is carried on the surface of the partition wall, and a purified gas outflow cell whose other opening end is clogged are alternately arranged, and at least one fine coating layer constituted of a porous ceramic having an average pore diameter smaller than that of the porous ceramic constituting the partition wall is formed on a surface of the partition wall on a purified gas outflow cell side. The catalyst-carried filter capable of securely trapping/collecting particulates contained in an exhaust gas, and also sufficiently bringing an oxidation catalyst into contact with the particulates, so that it is possible to reduce the particulates in the exhaust gas and to lower a frequency of reproducing operation of the filter.